

NPS (in.)	Class 150		Class 300		Class 400		Class 600	
	Min Torque	Max Torque	Min Torque	Max Torque	Min Torque	Max Torque	Min Torque	Max Torque
0.5	30	50	30	35	30	40	30	40
0.75	30	50	60	70	60	80	60	80
1	30	50	60	70	60	80	60	80
1.25	30	60	60	75	60	80	60	80
1.5	30	60	100	160	100	160	100	160
2	60	120	60	105	60	105	60	105
2.5	60	120	100	140	100	140	100	140
3	60	120	100	200	100	200	100	200
3.5	60	120	100	195	160	290	160	290
4	60	120	100	200	160	320	160	320
5	100	200	100	200	160	320	245	490
6	100	200	100	195	160	320	245	415
8	100	200	160	310	245	490	355	700
10	160	315	245	485	355	640	500	740
12	160	320	355	710	500	990	500	790
14	245	490	355	710	500	860	680	945
16	245	485	500	1000	680	1240	800	1200
18	355	705	500	1000	680	1185	1100	1580
20	355	705	500	1000	800	1265	1100	1470
24	500	1000	800	1510	1500	2010	2000	2670

NPS (in.)	Class 900		Class 1500		Class 2500	
	Min Torque	Max Torque	Min Torque	Max Torque	Min Torque	Max Torque
0.5	70	85	70	85	50	85
0.75	70	85	70	85	55	85
1	110	135	110	135	95	135
1.25	110	135	110	135	185	230
1.5	165	210	165	210	270	325
2	110	135	110	135	190	230
2.5	165	205	165	205	270	310
3	110	230	240	330	415	440
4	240	420	365	515	665	780
5	335	595	535	730	1165	1250
6	260	500	490	660	1750	1870
8	455	680	780	990	1705	1845
10	470	660	1460	1740	2900	3670
12	520	725	1470	1835	4450	4935
14	580	765	2120	2650		
16	865	1190	2935	3670		
18	1470	2070	3950	4935		
20	1665	2180	5150	6435		
24	2935	3670	8335	10420		



Torque Values are in ft.-lbs., and assume Alloy Steel Bolts (A193 B7 w/ 2H Nuts) with oil/graphite lubrication. (Nut factors used on these charts are within .15 to .19). Flexitallic does not generally recommend a bolt stress above 60,000 PSI. Torque values limit minimum and maximum gasket seating stresses based upon pressure class and certain operating conditions.(i.e: maximum pressure ratings for given pressure class,not hydrotest pressure). Extreme operating conditions such as high temperature may reduce bolt yield strength. Caution should be used in these applications. The above torque values are for general use only. For critical or extreme applications (high temperature/pressure) consult with Flexitallic engineering. Flexitallic does not accept responsibility for the misuse of this information.

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